

Recovery Plan Action Status

Plan Name: South Florida Multi-Species Recovery Plan (68 spp.)

Plan Status: Final

Plan Date: 18-May-99

Lead Agency: USFWS

Lead Office: South Florida Ecological Services Field Office

(562-3909)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Key deer (<i>Odocoileus virginianus clavium</i>)	2	kede-h1.1.1	Continue Federal acquisition efforts for Key deer.	Ongoing Current	FY 1995 - FY 1999		National Key Deer Refuge	Acquisition	Internal Administrative	Cost dependent upon specific site and amount of land acquired. Action lead(s): FWS
Key deer (<i>Odocoileus virginianus clavium</i>)	2	kede-h1.1.2	Support State acquisition efforts.	Ongoing Current	FY 1995 - FY 1999		Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission	Acquisition	Internal Administrative	Cost dependent upon specific site and amount of land acquired. Action lead(s): FWC
Key deer (<i>Odocoileus virginianus clavium</i>)	3	kede-h1.1.3	Support and encourage land acquisition by non-governmental agencies.	Ongoing Current	FY 1995 - FY 1999		Non-governmental organizations	Acquisition	Internal Administrative	Cost dependent upon specific site and amount of land acquired. Action lead(s): NGO
Key deer (<i>Odocoileus virginianus clavium</i>)	3	kede-h1.1.4	Purchase and/or trade for lands adjacent to larger tracts of the refuge.	Ongoing Current	FY 1995 - FY 1999		National Key Deer Refuge	Acquisition	Internal Administrative	Cost dependent upon specific site and amount of land acquired and/or traded. Action lead(s): FWS
Key deer (<i>Odocoileus virginianus clavium</i>)	3	kede-h1.1.5	Purchase easements when necessary on private property important to Key deer.	Ongoing Current	FY 1995 - FY 1999		Private industry, landowners, etc.	Acquisition: Easement	Internal Administrative	Cost dependent upon specific site and amount of land acquired. Action lead(s): FWS
Key deer (<i>Odocoileus virginianus clavium</i>)	1	kede-h1.2.1	Protect Key deer on private lands through acquisition, conservation easements or agreements, and education of land owners.	Ongoing Current	FY 1995 - FY 1999		Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Monroe County Land Authority	Acquisition	Internal Administrative	A Habitat Conservation Plan for Big Pine Key and No Name Key has been finalized. Several land acquisition programs continue. Action lead(s): FWS
Key deer (<i>Odocoileus virginianus clavium</i>)	1	kede-h1.2.2	Protect Key deer on public lands.	Ongoing Current	FY 1995 - FY 1999		Florida Fish and Wildlife Conservation Commission	Acquisition	Labor type not yet selected	Cost dependent upon type of protection provided. Action lead(s): FWS

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Key deer (Odocoileus virginianus clavium)	2	kede-h1.2.3	Protect important corridor areas.	Ongoing Current	FY 1995 - FY 1999		Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, South Florida counties	Acquisition	Internal Administrative	Cost dependent upon type of protection provided. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-h1.2.4	Eliminate threats from invasive exotic flora and fauna.	Ongoing Current	FY 1995 - FY 1999		Florida Fish and Wildlife Conservation Commission, Non-governmental organizations	Management: Habitat Maintenance and Manipulation	Contract	Cost is per acre (ex. 1.5/acre); Total cost dependent upon number of acres infested with exotics. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-h1.2.5.1	Prohibit campfires in the National Key Deer Refuge.	Obsolete			National Key Deer Refuge	Work type not yet selected	Labor type not yet selected	Task currently implemented on public lands and cost is included in managing agency's budget. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-h1.2.5.2	Establish and maintain fire breaks and fire trails.	Obsolete			Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission	Work type not yet selected	Labor type not yet selected	Task currently implemented on public lands and cost is included in managing agency's budget. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	2	kede-h1.2.5.3	Conduct prescribed burns on the National Key Deer Refuge when necessary.	Ongoing Not Current	FY 1995 - FY 1999		Non-governmental organizations	Management: Habitat Maintenance and Manipulation	Internal Administrative	Cost is per acre (ex. 1.0/acre); Total cost dependent upon number of acres burned. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-h1.2.6	Fence or barricade areas where off-road vehicle use and/or dumping is a threat.	Complete	FY 1995 - FY 1999	FY 2005	Florida Department of Transportation, South Florida counties	Management: General	Internal Administrative	Task currently implemented on FWS land and cost is included in managing agency's budget. Action lead(s): FWS. (Note: Maintenance needs and new work may arise)
Key deer (Odocoileus virginianus clavium)	3	kede-h1.2.7	Address the management and protection of non-refuge lands.	Ongoing Current	FY 1995 - FY 1999		Florida Fish and Wildlife Conservation Commission, South Florida counties	Management: Habitat Maintenance and Manipulation	Contract	Action lead(s): FWS

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Key deer (<i>Odocoileus virginianus clavium</i>)	3	kede-h1.2.8	Conduct experimental habitat management on selected Outer Keys.	Not Started			Florida Fish and Wildlife Conservation Commission	Management: Habitat Maintenance and Manipulation	Contract	Action lead(s): FWS
Key deer (<i>Odocoileus virginianus clavium</i>)	3	kede-h1.2.9	Maintain and evaluate present deer exclosures on Big Pine Key.	Ongoing Not Current	FY 1995 - FY 1999		Public and private universities	Management: Habitat Maintenance and Manipulation	Contract	Action lead(s): FWS
Key deer (<i>Odocoileus virginianus clavium</i>)	3	kede-h2.1	Restore natural tidal flow and hydrology by placing culverts or removing fill.	Ongoing Current	FY 1995 - FY 1999		Non-governmental organizations	Management: Habitat Maintenance and Manipulation	Internal Administrative	Too many variables to accurately determine cost. Action lead(s): FWS
Key deer (<i>Odocoileus virginianus clavium</i>)	3	kede-h2.2	Maintain and manage mosquito ditches so they do not impact deer habitat.	Ongoing Current	FY 1995 - FY 1999		Non-governmental organizations	Management: Habitat Maintenance and Manipulation	Internal Administrative	Task currently implemented on public lands and cost is included in responsible agency's budget. Action lead(s): FWS
Key deer (<i>Odocoileus virginianus clavium</i>)	2	kede-h2.3	Improve water quality in freshwater sources and restore freshwater sources.	Ongoing Current	FY 1995 - FY 1999		Non-governmental organizations	Management: Habitat Maintenance and Manipulation	Internal Administrative	Action lead(s): FWS

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Key deer (Odocoileus virginianus clavium)	3	kede-h2.4	Enhance Key deer habitat.	Not Started			U.S. Bureau of Land Management, U.S. Department of Agriculture, U.S. Geological Survey, Biological Resources Division, U.S. Federal Emergency Management Agency, U.S. Geological Survey, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers, Local Governments, Florida Department of Environmental Protection, Florida Department of Transportation, Florida Fish and Wildlife Conservation Commission, Texas A&M University, Department of Environmental Resources Management, Non-governmental organizations, Florida Division of Forestry, Natural Resources Conservation Service , United States Coast Guard , Bok Tower Gardens , Florida Natural Areas Inventory, U.S. Air Force, Archbold Biological Station, Florida Department of Agriculture and Consumer Services, Miccosukee and Seminole Indian Tribes of Florida, US Forest Service, Water Management Districts, Crocodile Lake National Wildlife Refuge, South Florida counties, South Florida county parks, Fairchild	Management: Habitat Maintenance and Manipulation	Contract	Cost is per acre (ex. 0.5/acre); Total cost dependent upon number of acres enhanced. Action lead(s): FWS. {H2.4. Enhance Key deer habitat: "Re-establish pines and associated plant communities in areas damaged by severe fire"}

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
							Tropical Garden, Florida Department of Agriculture and Consumer Services/Division of Plant Industry, Institute for Regional Conservation, Key West Tropical Forest and Botanical Garden, Naval Air Station Key West, National Key Deer Refuge, Private industry, landowners, etc., South Florida state parks, Public and private universities, Monroe County Land Authority			
Key deer (Odocoileus virginianus clavium)	3	kede-h2.5	Improve habitat by planting or encouraging native plant species.	Ongoing Current	FY 1995 - FY 1999		National Key Deer Refuge	Management: Habitat Maintenance and Manipulation	Contract	Cost is per acre (ex. 0.5/acre); Total cost dependent upon number of acres restored. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-h2.6	Create habitat by refilling and recreating areas that have been dredged or altered.	Ongoing Current	FY 1995 - FY 1999		Non-governmental organizations	Management: Habitat Maintenance and Manipulation	Contract	Cost is per acre (ex. 1.0/acre); Total cost dependent upon number of acres created for habitat. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-h3.1.1	Conduct radio telemetry on various subpopulations.	Complete	FY 1995 - FY 1999	FY 2000 - FY 2004	Public and private universities	Management: Reintroduction	Contract	See Lopez (2001). Action lead(s): FWS. Note: "Completed" on Big Pine & No Name Keys; additional telemetry work is variously conducted/ongoing on other keys variously for research or management purposes as needed.
Key deer (Odocoileus virginianus clavium)	3	kede-h3.1.2	Investigate the effect of habitat change.	Complete	FY 1995 - FY 1999	FY 2000 - FY 2004	Public and private universities	Research: Habitat Status	Contract	See Lopez (2001). Action lead(s): FWS

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Key deer (Odocoileus virginianus clavium)	3	kede-h3.2.1	Investigate movement patterns and the spatial use of habitat to identify important core areas and corridors.	Complete	FY 1995 - FY 1999	FY 2000 - FY 2004	Public and private universities	Research: Habitat Requirements	Contract	See Lopez (2001). Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-h3.2.2	Determine stable home range and minimum area required.	Complete	FY 1995 - FY 1999	FY 2000 - FY 2004	Public and private universities	Research: Habitat Requirements	Contract	See Lopez (2001). Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-h3.2.3	Determine if the amount and configuration of habitat is sufficient to support a stable or increasing population of deer.	Complete	FY 1995 - FY 1999	FY 2000 - FY 2004	Public and private universities	Research: Habitat Status	Contract	See Lopez (2001). Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-h4.0	Monitor the status of Key deer habitat and examine ecological processes.	Ongoing Current	FY 1995 - FY 1999		Public and private universities	Research: Habitat Status	Contract	Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-h5.0	Increase public awareness of Key deer habitat and instill stewardship.	Ongoing Current	FY 1995 - FY 1999		Non-governmental organizations	Other: Information and Education	Internal Administrative	Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s1.1	Develop a Master Census Plan to determine the status of the Key deer and its habitat.	Partially Complete	FY 2000 - FY 2004		Florida Fish and Wildlife Conservation Commission, Non-governmental organizations	Research: Population Surveys	Contract	Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	2	kede-s1.2	Survey for the presence/absence of Key deer in suitable habitat.	Complete	FY 1995 - FY 1999	FY 2000 - FY 2004	Public and private universities	Acquisition: General	Contract	See Lopez (2001). Action lead(s): FWS. (Note: Routine road-count surveys continue annually)
Key deer (Odocoileus virginianus clavium)	3	kede-s1.3	Maintain and improve the GIS database for Key deer information.	Ongoing Current	FY 1995 - FY 1999		National Key Deer Refuge	Acquisition: General	Internal Administrative	Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s2.1	Staff the National Key Deer Refuge with a biologist.	Discontinued			National Key Deer Refuge	Management	Internal Administrative	Action lead(s): FWS

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Key deer (Odocoileus virginianus clavium)	2	kede-s2.2.1	Develop a standard protocol for conducting, monitoring, and evaluating all reintroduction, translocation, and supplementation efforts.	Partially Complete	FY 2000 - FY 2004		Public and private universities	Management: Reintroduction	Contract	Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	2	kede-s2.2.2	Reintroduce Key deer to suitable public lands.	Partially Complete	FY 2000 - FY 2004		Non-governmental organizations	Management: Reintroduction	Contract	Initiated in 2004. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s2.2.3	Educate the public on the need for and process of Key deer reintroductions.	Partially Complete	FY 2000 - FY 2004		Non-governmental organizations	Acquisition: General	Internal Administrative	Initiated in 2003. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	2	kede-s2.2.4	Enforce protection of reintroduced or released Key deer.	Ongoing Current	FY 2000 - FY 2004		South Florida counties	Management: General	Internal Field Assistance	Cost included in responsible agency's budget. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	2	kede-s2.3	Conduct consultations on Federal activities. Determine jeopardy thresholds for the Key deer.	Ongoing Current	FY 1995 - FY 1999		Florida Fish and Wildlife Conservation Commission, Non-governmental organizations	Other: Regulations	Internal Administrative	Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s2.4	Provide information about Key deer to Federal, State, county and city agencies.	Ongoing Current	FY 1995 - FY 1999		Non-governmental organizations	Management: Other	Internal Administrative	Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	2	kede-s2.5.1	Control poaching.	Ongoing Current	FY 1995 - FY 1999		Florida Fish and Wildlife Conservation Commission	Other: Law Enforcement	Internal Field Assistance	Task currently conducted and cost is included in responsible agency's budget. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s2.5.2	Prohibit animal trespass.	Ongoing Current	FY 1995 - FY 1999		South Florida counties	Other: Law Enforcement	Internal Administrative	Task currently conducted and cost is included in responsible agency's budget. Action lead(s): FWS

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Key deer (Odocoileus virginianus clavium)	3	kede-s2.5.3.1	Reduce speed limit on primary and secondary roads.	Ongoing Current	FY 1995 - FY 1999		Florida Department of Transportation, South Florida counties	Other: Law Enforcement	Internal Administrative	After task is implemented, cost of enforcing speed zones will be included in responsible agency's budget. Action lead(s): DOT
Key deer (Odocoileus virginianus clavium)	2	kede-s2.5.3.2	Continue and increase enforcement of speed zones.	Ongoing Current	FY 1995 - FY 1999		South Florida counties	Other: Information and Education	Internal Administrative	Task currently conducted and cost is included in responsible agency's budget. Action lead(s): counties
Key deer (Odocoileus virginianus clavium)	3	kede-s2.5.3.3	Identify deer crossings.	Complete	FY 1995 - FY 1999	FY 2005	Florida Department of Transportation, National Key Deer Refuge	Management: Other	Contract	See Lopez (2001). Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s2.5.3.4	Investigate the use of fencing to reduce collisions.	Complete	FY 1995 - FY 1999	FY 2005	Florida Department of Transportation, National Key Deer Refuge	Management: Other	Graduate Student	Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s2.5.3.5	Identify roads that could be constructed or upgraded, and coordinate to minimize impacts.	Ongoing Current	FY 1995 - FY 1999		Florida Department of Transportation, South Florida counties	Management: Other	Internal Field Assistance	Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s2.5.4.1	Fill mosquito ditches in selected areas of the refuge.	Complete	FY 1995 - FY 1999	FY 2000 - FY 2004	National Key Deer Refuge	Management: Habitat Maintenance and Manipulation	Contract	Total cost dependent upon number of acres restored. Action lead(s): FWS. Ditches identified as specific problem sites (fawns drowning) have largely been dealt with. Broader issues with ditches (habitat/hydrol. impacts) have not been fully addressed.
Key deer (Odocoileus virginianus clavium)	3	kede-s2.5.4.2	Monitor effects of filling ditches.	Partially Complete	FY 1995 - FY 1999		Florida Department of Transportation, South Florida counties	Management: Habitat Maintenance and Manipulation	Internal Administrative	Action lead(s): FWS

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Key deer (Odocoileus virginianus clavium)	3	kede-s2.6.1.1	Eliminate incompatible uses on the refuge.	Ongoing Current	FY 1995 - FY 1999		National Key Deer Refuge	Work type not yet selected	Labor type not yet selected	Task currently implemented on public lands and cost is included in managing agency's budget. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s2.6.1.2	Continue to limit access to daytime use.	Obsolete			National Key Deer Refuge	Work type not yet selected	Labor type not yet selected	Task currently implemented on public lands and cost is included in managing agency's budget. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s2.6.1.3	Continue to prohibit camping and military maneuvers.	Obsolete			National Key Deer Refuge	Work type not yet selected	Labor type not yet selected	Task currently implemented on public lands and cost is included in managing agency's budget. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s2.6.1.4	Continue to limit all vehicles to paved roads except for refuge and emergency operations.	Ongoing Current	FY 1995 - FY 1999		National Key Deer Refuge	Work type not yet selected	Labor type not yet selected	Task currently implemented on public lands and cost is included in managing agency's budget. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s2.6.1.5	Erect fences around developments when deemed necessary.	Obsolete			Private industry, landowners, etc.	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s2.6.2.1	Prohibit feedings; post signs.	Ongoing Current	FY 1995 - FY 1999		National Key Deer Refuge	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s2.6.2.2	Prohibit feedings; distribute educational brochures.	Ongoing Not Current	FY 1995 - FY 1999		National Key Deer Refuge	Work type not yet selected	Labor type not yet selected	Brochures are available at NKDR. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s2.6.2.3	Prohibit feedings; increase enforcement of illegal feedings.	Ongoing Current	FY 1995 - FY 1999		National Key Deer Refuge	Management: General, Management: Other	Internal Administrative	Task currently implemented on public lands and cost is included in managing agency's budget. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s2.7	Continue rehabilitation program of Key deer.	Ongoing Current	FY 1995 - FY 1999		Non-governmental organizations	Work type not yet selected	Internal Administrative	Homosassa Springs Wildlife State Park and Lowry Park Zoo maintain injured deer. Action lead(s): NGO

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Key deer (<i>Odocoileus virginianus clavium</i>)	3	kede-s2.8	Investigate captive propagation options.	Not Started			Non-governmental organizations	Research: Propagation	Internal Administrative	Captive propagation is deemed unnecessary at this time. Action lead(s): FWS
Key deer (<i>Odocoileus virginianus clavium</i>)	3	kede-s3.3.1	Determine the finite rate of increase for the Key deer population.	Complete	FY 1995 - FY 1999	FY 2000 - FY 2004	Public and private universities	Research: Demographic Studies	Contract	See Lopez (2001). Action lead(s): FWS. Note: complete for metapop. core (Big Pine & No Name Keys); not necessarily so for various outer islands.
Key deer (<i>Odocoileus virginianus clavium</i>)	1	kede-s3.3.2	Determine if the total population size is large enough to prevent functional extinction and genetic extinction.	Complete	FY 1995 - FY 1999	FY 2000 - FY 2004	Public and private universities	Research: Demographic Studies	Contract	Lopez (2001) includes population viability analysis. Action lead(s): FWS. Note: complete for metapop. core (Big Pine & No Name Keys); not necessarily so for various outer islands.
Key deer (<i>Odocoileus virginianus clavium</i>)	3	kede-s3.3.3	Determine the effective population size.	Complete	FY 1995 - FY 1999	FY 2000 - FY 2004	Public and private universities	Research: Demographic Studies	Contract	Lopez (2001) estimates population size, age structure, and sex ratio. Action lead(s): FWS. Note: complete for metapop. core (Big Pine & No Name Keys); not necessarily so for various outer islands.
Key deer (<i>Odocoileus virginianus clavium</i>)	1	kede-s3.3.4	Determine the number of subpopulations or breeding herds necessary to maintain a stable or increasing population.	Complete	FY 1995 - FY 1999	FY 2000 - FY 2004	Public and private universities	Acquisition: Lease	Contract	Lopez (2001) includes this analysis. Action lead(s): FWS. Note: complete for metapop. core (Big Pine & No Name Keys); not necessarily so for various outer islands.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Key deer (Odocoileus virginianus clavium)	3	kede-s3.3.5	Determine a stable age structure, sex ratio, and group size for the Key deer.	Complete	FY 1995 - FY 1999	FY 2000 - FY 2004	Public and private universities	Research: Demographic Studies	Contract	Lopez (2001) includes this analysis. Action lead(s): FWS. Note: complete for metapop. core (Big Pine & No Name Keys); not necessarily so for various outer islands.
Key deer (Odocoileus virginianus clavium)	3	kede-s3.3.6	Characterize social behavior and compare past behaviors with current trends.	Complete	FY 1995 - FY 1999	FY 2000 - FY 2004	Public and private universities	Research: General	Contract	Lopez (2001) includes analysis and comparison to Hardin et al. (1984) and Folk and Klimstra (1991). Action lead(s): universities. Note: complete for metapop. core (Big Pine & No Name Keys); not necessarily so for various outer islands.
Key deer (Odocoileus virginianus clavium)	3	kede-s3.3.7	Continue necropsy of all Key deer mortalities.	Ongoing Not Current	FY 1995 - FY 1999		Public and private universities	Research: Demographic Studies, Research: Population Assessment	Contract, Graduate Student, Internal Administrative	Necropsies are part of NKDR program. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s3.3.8	Update and compile all existing roadkill data.	Ongoing Current	FY 1995 - FY 1999		Florida Department of Transportation, South Florida counties	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s4.1	Develop methods to monitor demographic parameters.	Complete	FY 1995 - FY 1999	FY 2007	Public and private universities	Work type not yet selected	Labor type not yet selected	Lopez (2001) includes detailed methodology. Action lead(s): universities
Key deer (Odocoileus virginianus clavium)	2	kede-s4.2	Conduct long-term monitoring of the status of the deer.	Ongoing Current	FY 1995 - FY 1999		Public and private universities	Research: Population Surveys	Contract, Graduate Student, Internal Administrative	NKDR has been conducting regular monitoring since 1966; TAMU also conducted studies in 1970 and 2000. Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s5.1	Provide funding to build and operate a visitor center.	Ongoing Current	FY 1995 - FY 1999		National Key Deer Refuge	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s5.2	Continue volunteer program.	Ongoing Current	FY 1995 - FY 1999		Non-governmental organizations	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Key deer (Odocoileus virginianus clavium)	3	kede-s5.3	Prepare informational material for the general public.	Ongoing Current	FY 1995 - FY 1999		Non-governmental organizations	Work type not yet selected	Labor type not yet selected	Several brochures completed. Action lead(s): FWS

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Key deer (Odocoileus virginianus clavium)	3	kede-s5.4	Provide public officials, planning agencies, and private developers with information on all phases of Key deer management and about potential threats.	Ongoing Current	FY 1995 - FY 1999		U.S. Bureau of Land Management, U.S. Department of Agriculture, U.S. Geological Survey, Biological Resources Division, U.S. Federal Emergency Management Agency, U.S. Geological Survey, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers, Local Governments, Florida Department of Environmental Protection, Florida Department of Transportation, Florida Fish and Wildlife Conservation Commission, Department of Environmental Resources Management, Non-governmental organizations, Florida Division of Forestry, Natural Resources Conservation Service , United States Coast Guard , Florida Natural Areas Inventory, U.S. Air Force, Florida Department of Agriculture and Consumer Services, Miccosukee and Seminole Indian Tribes of Florida, US Forest Service, Water Management Districts, Crocodile Lake National Wildlife Refuge, South Florida counties, South Florida county parks, Florida Department of Agriculture and Consumer Services/Division of	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
							Plant Industry, Key West Tropical Forest and Botanical Garden, Naval Air Station Key West, National Key Deer Refuge, Private industry, landowners, etc., South Florida state parks, Monroe County Land Authority			
Key deer (Odocoileus virginianus clavium)	2	kede-s5.5	Inform the public through media as to the problems with feeding.	Ongoing Not Current	FY 1995 - FY 1999		National Key Deer Refuge	Other: Information and Education	Internal Administrative	Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s5.6	Inform the public through media as to the problem with animal trespass.	Ongoing Not Current	FY 1995 - FY 1999		National Key Deer Refuge	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	3	kede-s6.0	Establish reclassification criteria.	Planned	FY 2006		Public and private universities	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS
Key deer (Odocoileus virginianus clavium)	2	kede-s7.0	Conduct multispecies recovery actions.	Ongoing Current	FY 1995 - FY 1999		Florida Fish and Wildlife Conservation Commission, Water Management Districts, South Florida counties, Public and private universities	Management	Internal Administrative	Cost difficult to determine because task involves extensive cooperation and cost sharing among a number of agencies. Action lead(s): FWS ... Execution of Big Pine Key-No Name Key HCP is the prominent example. Additionally, inv. exotic plant control may be ascribed to this task.